


## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Model for Neurodegenerative Diseases Involving Amyloid Accumulation																																																																																																																					
<p>Application Number: 09/961381 </p> <p>Confirmation Number: 7154</p> <p>First Named Applicant: Gary Lynch</p> <p>Attorney Docket Number: 1891.0040001</p> <p>Art Unit: 1632</p> <p>Examiner: Deborah Crouch</p> <p>Search string: ( 4366241 or 4376110 or 4517288 or 4837168 or 5010175 or 5464764 or 5539083 or 5627059 or 5767337 or 5830678 or 5877399 or 6046381 or 6120991 or 20020048746 ).pn.</p> <h3>US Patent Documents</h3> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>dc</td><td>1</td><td>4366241</td><td>1982-12-28</td><td>Tom et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4376110</td><td>1983-03-08</td><td>David et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>4517288</td><td>1985-05-14</td><td>Giegel et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4837168</td><td>1989-06-06</td><td>de Jaeger et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5010175</td><td>1991-04-23</td><td>Rutter et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5464764</td><td>1995-11-07</td><td>Capecchi et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5539083</td><td>1996-07-23</td><td>Cook et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>5627059</td><td>1997-05-06</td><td>Capecchi et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5767337</td><td>1998-06-16</td><td>Roses et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>5830678</td><td>1998-11-03</td><td>Carter</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>5877399</td><td>1999-03-02</td><td>Hsiao et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>6046381</td><td>2000-04-04</td><td>Mucke et al.</td><td></td><td></td><td></td></tr><tr><td>dc</td><td>13</td><td>6120991</td><td>2000-09-19</td><td>Carter et al.</td><td></td><td></td><td></td></tr></tbody></table> <h3>US Published Applications</h3>							init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	dc	1	4366241	1982-12-28	Tom et al.					2	4376110	1983-03-08	David et al.					3	4517288	1985-05-14	Giegel et al.					4	4837168	1989-06-06	de Jaeger et al.					5	5010175	1991-04-23	Rutter et al.					6	5464764	1995-11-07	Capecchi et al.					7	5539083	1996-07-23	Cook et al.					8	5627059	1997-05-06	Capecchi et al.					9	5767337	1998-06-16	Roses et al.					10	5830678	1998-11-03	Carter					11	5877399	1999-03-02	Hsiao et al.					12	6046381	2000-04-04	Mucke et al.				dc	13	6120991	2000-09-19	Carter et al.			
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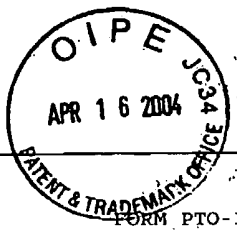


Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<i>h</i>	1	20020048746	2002-04-25	Lynch et al.			

Signature

Examiner Name	Date
<i>Dilvoral Chandra</i>	<i>June 28, 2004</i>



FORM PTO-1449 <b>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 1819.0040001/MAC/LBB	APPLICATION NO. 09/961,381
	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

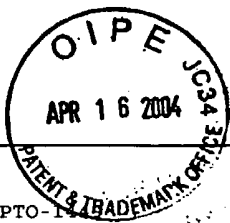
U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
dc	AL1	WO 92/00091 A1	01/09/1992	WIPO	/	/	Yes No
dc	AM1	WO 93/20242 A1	10/14/1993	WIPO	/	/	Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
dc	AR	1	Akiyama, H., et al., "Inflammation and Alzheimer's disease," <i>Neurobiol. Aging</i> 21:383-421, Elsevier Science (May-June 2000)
dc	AS	1	Backstrom, J.R., et al., "Matrix Metalloproteinase-9 (MMP-9) Is Synthesized in Neurons of the Human Hippocampus and Is Capable of Degrading the Amyloid- $\beta$ Peptide (1-40)," <i>J. Neurosci.</i> 16:7910-7919, Society for Neuroscience (1996)
dc	AT	1	Bahr, B.A., et al., "Stable Maintenance of Glutamate Receptors and Other Synaptic Components in Long-Term Hippocampal Slices," <i>Hippocampus</i> 5:425-439, Wiley-Liss (1995)

EXAMINER <i>Deborah Cronch</i>	DATE CONSIDERED <i>6-28-04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-157

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

dc	AR	2	Bahr, B.A., et al., "Amyloid $\beta$ Protein is Internalized Selectively by Hippocampal Field CA1 and Causes Neurons to Accumulate Amyloidogenic Carboxyterminal Fragments of the Amyloid Precursor Protein," <i>J. Comp. Neurol.</i> 397:139-147, Wiley-Liss (1998)
dc	AS	2	Bahr, B., and Lynch, G., "Purification of an Arg-Gly-Asp selective matrix receptor from brain synaptic plasma membranes," <i>Biochem. J.</i> 281:137-142, The Biochemical Society/Portland Press (1992)
dc	AT	2	Bahr, B.A., et al., "Fibronectin binding by brain synaptosomal membranes may not involve conventional integrins," <i>Neuroreport</i> 2:13-16, Rapid Communications of Oxford (1991)

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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

dc	AR	3	Bahr, B.A., et al., "Arg-Gly-Asp-Ser-Selective Adhesion and the Stabilization of Long-Term Potentiation: Pharmacological Studies and the Characterization of a Candidate Matrix Receptor," <i>J. Neurosci.</i> 17:1320-1329, Society for Neuroscience (1997)
dc	AS	3	Bahr, B.A., "Integrin-Type Signaling Has a Distinct Influence on NMDA-Induced Cytoskeletal Disassembly," <i>J. Neurosci. Res.</i> 59:827-832, Wiley-Liss (March 2000)
dc	AT	3	Bard, F., et al., "Peripherally administered antibodies against amyloid $\beta$ -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature America Inc. (August 2000)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>de</i>	AR	<u>4</u>	Barrett, A.J., and Kirschke, H., "Cathepsin B, Cathepsin H, and Cathepsin L," Meth. Enzymol. 80:535-561, Academic Press (1981)
<i>de</i>	AS	<u>4</u>	Beattie, E.C., et al., "Regulation of AMPA receptor endocytosis by a signaling mechanism shared with LTD," Nat. Neurosci. 3:1291-1300, Nature America Inc. (December 2000)
<i>de</i>	AT	<u>4</u>	Bednarski, E., and Lynch, G., "Cytosolic Proteolysis of $\tau$ by Cathepsin D in Hippocampus Following Suppression of Cathepsins B and L," J. Neurochem. 67:1846-1855, Lippincott-Raven Publishers (1996)

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<i>de</i>	AR	<u>5</u>	Bednarski, E., and Lynch, G., "Selective suppression of cathepsin L results from elevations in lysosomal pH and is followed by proteolysis of tau protein," NeuroReport 9:2089-2094, Rapid Science (1998)
<i>de</i>	AS	<u>5</u>	Bi, X., et al., "Polarized Distribution of $\alpha 5$ Integrin in Dendrites of Hippocampal and Cortical Neurons," J. Comp. Neurol. 435:184-193, Wiley-Liss (June 2001)
<i>de</i>	AT	<u>5</u>	Bi, X., et al., "Novel Cathepsin D Inhibitors Block the Formation of Hyperphosphorylated Tau Fragments in Hippocampus," J. Neurochem. 74:1469-1477, Lippincott Williams & Wilkins (April 2000)

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<i>dc</i>	AR	<u>6</u>	Brion, J.-P., et al., "Neurofilament Monoclonal Antibodies RT97 and 8D8 Recognize Different Modified Epitopes in Paired Helical Filament- $\tau$ in Alzheimer's Disease," J. Neurochem. 60:1372-1382, Raven Press (1993)
<i>dc</i>	AS	<u>6</u>	Bruce, A.J., et al., " $\beta$ -Amyloid toxicity in organotypic hippocampal cultures: Protection by EUK-8, a synthetic catalytic free radical scavenger," Proc. Natl. Acad. Sci. USA 93:2312-2316, National Academy of Sciences (1996)
<i>dc</i>	AT	<u>6</u>	Burkin, D.J., et al., "A Functional Role for Specific Spliced Variants of the $\alpha 7 \beta 1$ Integrin in Acetylcholine Receptor Clustering," J. Cell Biol. 143:1067-1075, The Rockefeller University Press (1998)

EXAMINER *Deborah Crouch*DATE CONSIDERED *6/28/04*

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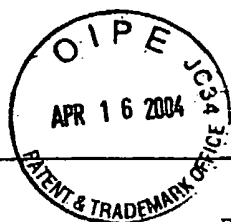
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dc	AR	2	Burnashev, N., et al., "Control of Asparagine Residues of Calcium Permeability and Magnesium Blockade in the NMDA Receptor," <i>Science</i> 257:1415-1419, American Association for the Advancement of Science (1992)
dc	AS	2	Busciglio, J., et al., "Generation of $\beta$ -amyloid in the secretory pathway in neuronal and nonneuronal cells," <i>Proc. Natl. Acad. Sci. USA</i> 90:2092-2096, National Academy of Sciences (1993)
dc	AT	2	Callahan, L.M., et al., "Quantitative Decrease in Synaptophysin Message Expression and Increase in Cathepsin D Message Expression in Alzheimer Disease Neurons Containing Neurofibrillary Tangles," <i>J. Neuropathol. Exp. Neurol.</i> 58:275-287, American Association of Neuropathologists (March 1999)

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dc	AR	8	Carroll, R.C., et al., "Dynamin-dependent endocytosis of ionotropic glutamate receptors," <i>Proc. Natl. Acad. Sci. USA</i> 96:14112-14117, National Academy of Sciences (November 1999)
dc	AS	8	Caswell, M.D., et al., "The amyloid $\beta$ -protein precursor of Alzheimer's disease is degraded extracellularly by a Kunitz protease inhibitor domain-sensitive trypsin-like serine protease in cultures of chick sympathetic neurons," <i>Eur. J. Biochem.</i> 266:509-516, Blackwell Science (December 1999)
dc	AT	8	Cataldo, A.M., et al., "Gene Expression and Cellular Content of Cathepsin D in Alzheimer's Disease Brain: Evidence for Early Up-Regulation of the Endosomal-Lysosomal System," <i>Neuron</i> 14:671-680, Cell Press (1995)

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de	AR	2	Chavis, P., and Westbrook, G., "Integrins mediate functional pre- and postsynaptic maturation at a hippocampal synapse," <i>Nature</i> 411:317-321, Nature Publishing Group (May 2001)
de	AS	2	Chazot, P.L., "CP-101606," <i>Curr. Opin. Investig. Drugs</i> 1:370-374, PharmaPress (November 2000)
de	AT	2	Chen, C., et al., "'Analogous' Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis," <i>J. Am. Chem. Soc.</i> 116:2661-2662, American Chemical Society (1994)

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<i>dc</i>	AR	<u>10</u>	Chun, D., et al., "Evidence that Integrins Contribute to Multiple Stages in the Consolidation of Long Term Potentiation in Rat Hippocampus," <i>Neurosci.</i> 105:815-829, Elsevier Science (August 2001)
<i>dc</i>	AS	<u>10</u>	Cotran, R.S., et al., "Forebrain Anomalies," in <i>Robbins Pathologic Basis of Disease</i> , 6 <sup>th</sup> ed., Schmitt, B., ed., W.B. Saunders Co., Philadelphia, PA, p. 1300-1301 (1998)
<i>dc</i>	AT	<u>10</u>	Cotran, R.S., et al., "Neurofibrillary tangles," in <i>Robbins Pathologic Basis of Disease</i> , 6 <sup>th</sup> ed., Schmitt, B., ed., W.B. Saunders Co., Philadelphia, PA, p.1330 (1998)

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Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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dc	AR	11	Cras, P., et al., "Microglia are associated with the extracellular neurofibrillary tangles of Alzheimer disease," <i>Brain Res.</i> 558:312-314, Elsevier Science B.V. (1991)
dc	AS	11	Dunah, A.W., et al., " $\alpha$ -Actinin-2 in rat striatum: localization and interaction with NMDA glutamate receptor subunits," <i>Brain Res. Mol. Brain Res.</i> 79:77-87, Elsevier Science B.V. (June 2000)
dc	AT	11	Ehlers, M.D., "Reinsertion or Degradation of AMPA Receptors Determined Activity-Dependent Endocytic Sorting," <i>Neuron</i> 28:511-525, Cell Press (November 2000)

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FORM PTO-1449

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<i>de</i>	AR	<u>13</u>	Ghisso, J., et al., "A 109-amino-acid C-terminal fragment of Alzheimer's-disease amyloid precursor protein contains a sequence, -RHDS-, that promotes cell adhesion," <i>Biochem. J.</i> 288:1053-1059, Portland Press (1992)
<i>de</i>	AS	<u>13</u>	Ginsberg, S.D., et al., "Expression Profile of Transcripts in Alzheimer's Disease Tangle-Bearing CA1 Neurons," <i>Ann. Neurol.</i> 48:77-87, Lippincott Williams & Wilkins (July 2000)
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	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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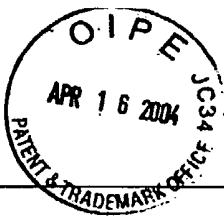
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	FILING DATE September 25, 2001	GROUP 1632

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	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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September 25, 2001GROUP  
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<i>dc</i>	AR	<u>18</u>	Iwata, N., et al., "Identification of the major A $\beta$ <sub>1-42</sub> -degrading catabolic pathway in brain parenchyma: Suppression leads to biochemical and pathological deposition," Nat. Med. 6:143-150, Nature America Inc. (February 2000)
<i>dc</i>	AS	<u>18</u>	Janus, C., et al., "Transgenic mouse models of Alzheimer's disease," Biochim. Biophys. Acta 1502:63-75, Elsevier Science B.V. (July 2000)
<i>dc</i>	AT	<u>18</u>	Kang, J., et al., "The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor," Nature 325:733-736, Macmillan Journals (1987)

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Lynch et al.FILING DATE  
September 25, 2001GROUP  
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	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
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	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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dc	AR	25	Nemerow, G.R., and Stewart, P.L., "Role of $\alpha$ , Integrins in Adenovirus Cell Entry and Gene Delivery," Microbiol. Mol. Biol. Rev. 63:725-734, American Society for Microbiology (September 1999)
dc	AS	25	Palmer, G.C., "Neuroprotection by NMDA Receptor Antagonists in a Variety of Neuropathologies," Curr. Drug Targets 2:241-271, Bentham Science Publishers (September 2001)
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FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1819.0040001/MAC/LBBAPPLICATION NO.  
09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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dc	AR	27	Plump, A.S., et al., "Severe Hypercholesterolemia and Atherosclerosis in Apolipoprotein E-Deficient Mice Created by Homologous Recombination in ES Cells," Cell 71:343-353, Cell Press (1992)
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1819.0040001/MAC/LBBAPPLICATION NO.  
09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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FORM PTO-1449  FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1819.0040001/MAC/LBB	APPLICATION NO. 09/961,381
	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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1819.0040001/MAC/LBBAPPLICATION NO.  
09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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FORM PTO-1449

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1819.0040001/MAC/LBBAPPLICATION NO.  
09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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dc	AR	31	Selkoe, D.J., "Imaging Alzheimer's amyloid," Nat. Biotechnol. 18:823-824, Nature America (August 2000)
dc	AS	31	Shoji, M., et al., "Production of the Alzheimer Amyloid $\beta$ Protein by Normal Proteolytic Processing," Science 258:126-129, American Association for the Advancement of Science (1992)
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FORM PTO-1449  <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1819.0040001/MAC/LBB	APPLICATION NO. 09/961,381
	APPLICANT Lynch et al.	
	FILING DATE September 25, 2001	GROUP 1632

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1819.0040001/MAC/LBBAPPLICATION NO.  
09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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dc	AS	33	Torimoto, Y., et al., "A Monoclonal Antibody (8H3) that Binds to Rat T Lineage Cells and Augments In Vitro Proliferative Responses," <i>J. Exp. Med.</i> 172:1315-1323, The Rockefeller University Press (1990)
dc	AT	33	Tsao, P.W., and Mousa, S.A., "Thrombospondin Mediates Calcium Mobilization in Fibroblasts via Its Arg-Gly-Asp and Carboxyl-terminal Domains," <i>J. Biol. Chem.</i> 270:23747-23753, The American Society for Biochemistry and Molecular Biology (1995)

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1819.0040001/MAC/LBBAPPLICATION NO.  
09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
1632

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dc	AS	34	Vekrellis, K., et al., "Neurons Regulate Extracellular Levels of Amyloid $\beta$ -Protein via Proteolysis by Insulin-Degrading Enzyme," <i>J. Neurosci.</i> 20:1657-1665, Society for Neuroscience (March 2000)
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<i>dc</i>	AR	<u>35</u>	Vincent, I., et al., "Mitotic Phosphopeptides Precede Paired Helical Filaments in Alzheimer's Disease," <i>Neurobiol. Aging</i> 19:287-296, Elsevier Science (1998)
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FORM PTO-1449

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09/961,381APPLICANT  
Lynch et al.FILING DATE  
September 25, 2001GROUP  
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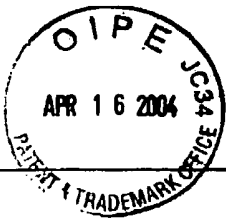
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